Docket No.: MSFT-3017/307734.01 App. No.: Not Yet Assigned Filed: Herewith Title: Systems and Methods for Automated Classification and Analysis of Large Volumes of Test Result Data Inventors: Edward Triou, Jr., Andre Milbradt, Osarumwemse U. Agbonile, and Affan Arshad Dar Attorney: Nathaniel Ari Long Phone: (215) 568-3100 Sheet 1 of 11 **Application 100 Exemplary Operations:** A. Open file 101 B. Manipulate file 102 C. Close file 103 **Test Scenarios For 2 Variables 110** Operating systems 120 Windows XP Mac OS X Windows 2000

Processor Family Types 130 Intel Χ Χ Χ Celeron **AMD** Χ Χ Χ **Thunderbird** Intel Χ Χ Χ Pentium IV

(Total Tests = (# in variable 1) x (# in variable 2) = $3 \times 3 = 9$)

Test Scenarios For 3-8 Variables 140

Number of variables 150 Number of variations within each variable 160 3 7 4 5 6 8 64 256 1024 4096 16384 65536 5 125 625 3125 15625 78125 390625 6 216 1296 7776 46656 279936 1679616

Fig. 1

Inventors: Edward Triou, Jr., Andre Milbradt, Osarumwemse U. Agbonile, and Affan Arshad Dar

Attorney: Nathaniel Ari Long Phone: (215) 568-3100 Sheet 2 of 11

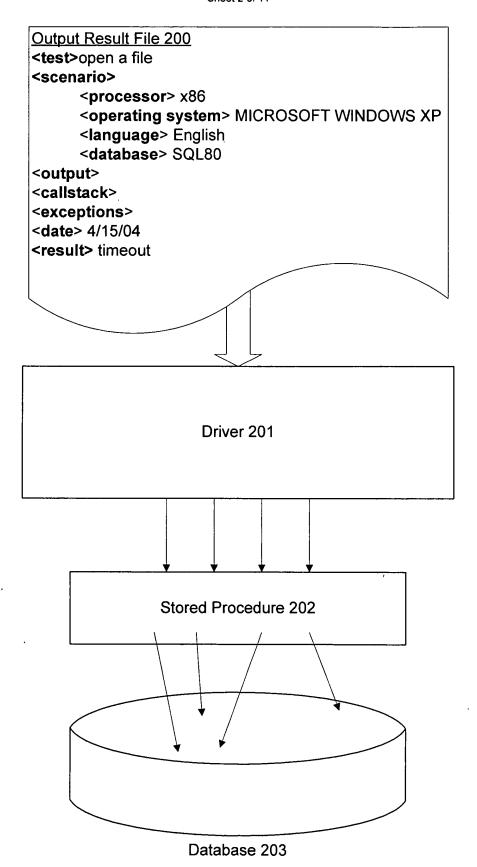


Fig. 2

App. No.: Not Yet Assigned Docket No.: MSFT-3017/307734.01

Filed: Herewith Title: Systems and Methods for Automated Classification and Analysis of Large Volumes of Test Result Data

Inventors: Edward Triou, Jr., Andre Milbradt, Osarumwemse U. Agbonile, and Affan Arshad Dar

Attorney: Nathaniel Ari Long

Phone: (215) 568-3100 Sheet 3 of 11

Collapsing Failures

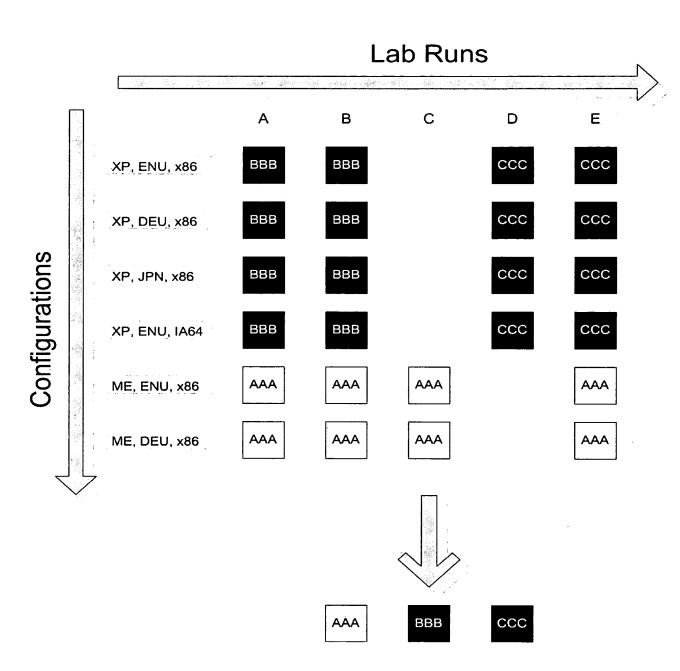


Fig. 3

Inventors: Edward Triou, Jr., Andre Milbradt, Osarumwemse U. Agbonile, and Affan Arshad Dar

Attorney: Nathaniel Ari Long Phone: (215) 568-3100 Sheet 4 of 11

Exemplary Database Schema

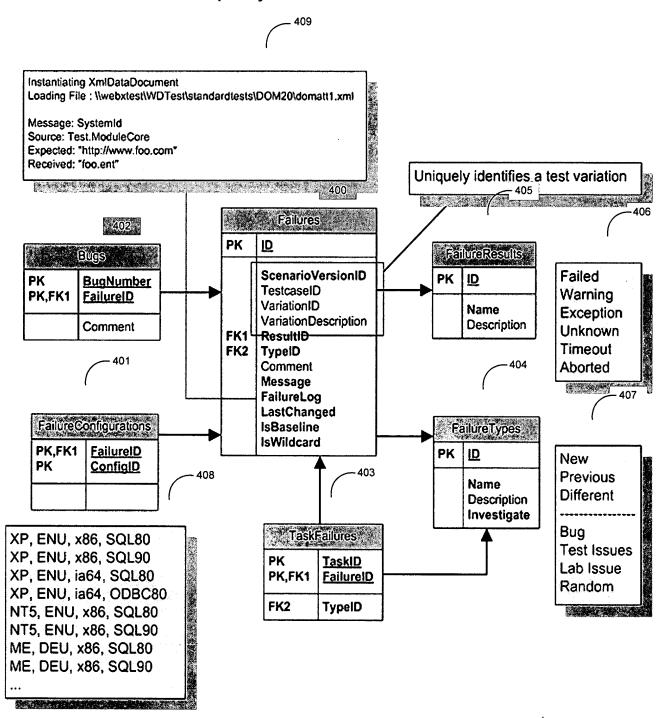


Fig. 4

Inventors: Edward Triou, Jr., Andre Milbradt, Osarumwemse U. Agbonile, and Affan Arshad Dar

Attorney: Nathaniel Ari Long Phone: (215) 568-3100

Sheet 5 of 11

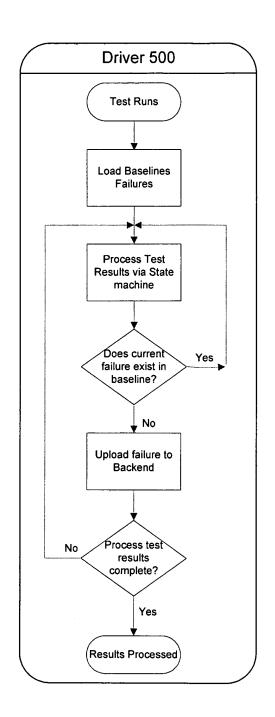


Fig. 5

Inventors: Edward Triou, Jr., Andre Milbradt, Osarumwemse U. Agbonile, and Affan Arshad Dar

Attorney: Nathaniel Ari Long Phone: (215) 568-3100

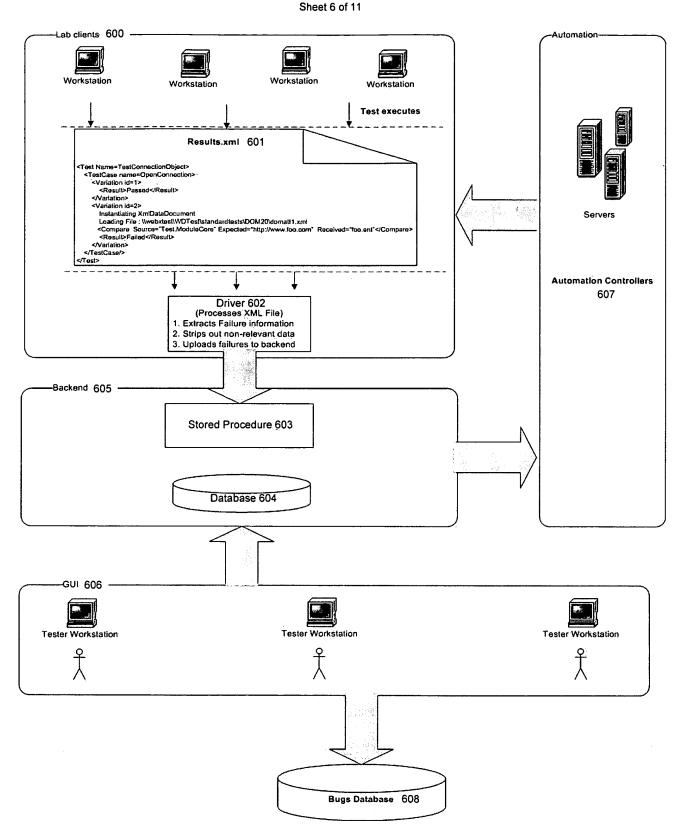


Fig. 6

Docket No.: MSFT-3017/307734.01 App. No.: Not Yet Assigned Filed: Herewith Title: Systems and Methods for Automated Classification and Analysis of Large Volumes of Test Result Data Inventors: Edward Triou, Jr., Andre Milbradt, Osarumwemse U. Agbonile, and Affan Arshad Dar

Attorney: Nathaniel Ari Long Phone: (215) 568-3100

Sheet 7 of 11

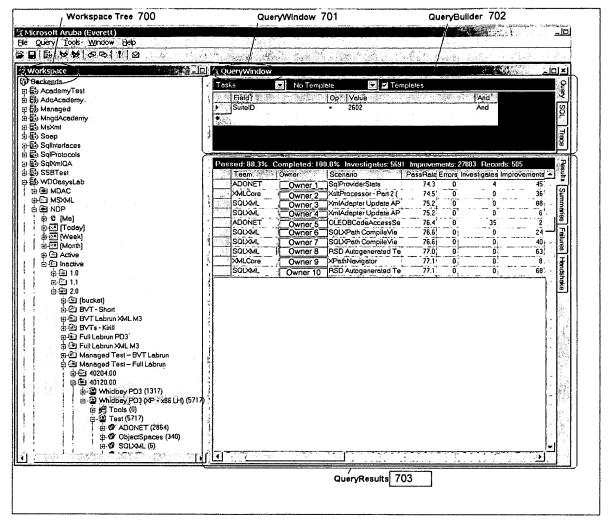


Fig. 7

Inventors: Edward Triou, Jr., Andre Milbradt, Osarumwemse U. Agbonile, and Affan Arshad Dar

Attorney: Nathaniel Ari Long Phone: (215) 568-3100 Sheet 8 of 11

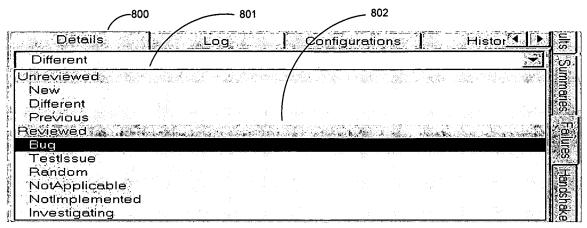


Fig. 8

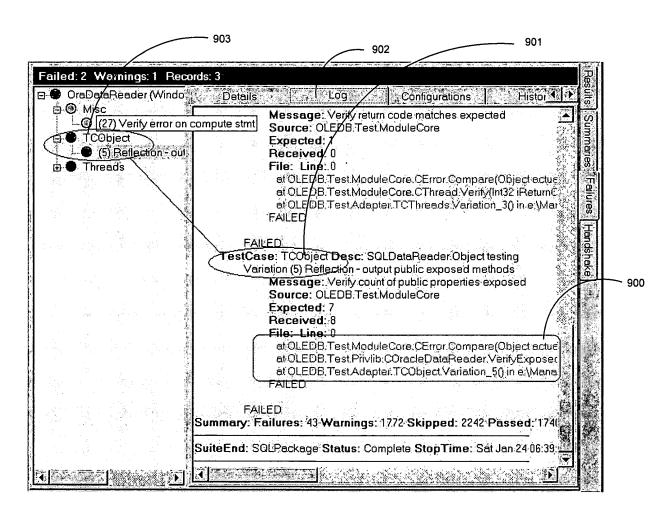


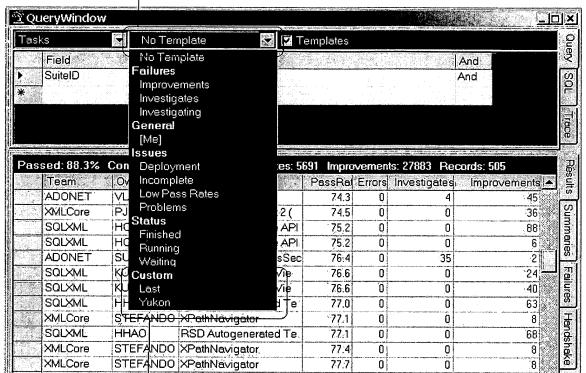
Fig. 9

Inventors: Edward Triou, Jr., Andre Milbradt, Osarumwemse U. Agbonile, and Affan Arshad Dar

Attorney: Nathaniel Ari Long

Phone: (215) 568-3100 Sheet 9 of 11

Templates 1000



User Templates 1001

Fig. 10

Docket No.: MSFT-3017/307734.01

App. No.: Not Yet Assigned

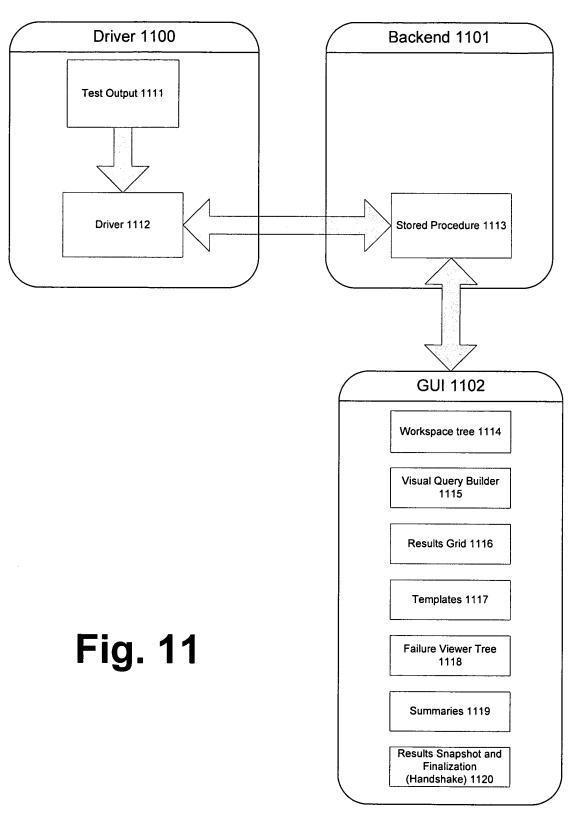
Filed: Herewith

Title: Systems and Methods for Automated Classification and Analysis of Large Volumes of Test Result Data Inventors: Edward Triou, Jr., Andre Milbradt, Osarumwemse U. Agbonile, and Affan Arshad Dar

Attorney: Nathaniel Ari Long

Phone: (215) 568-3100

Sheet 10 of 11



Docket No.: MSFT-3017/307734.01 App. No.: Not Yet Assigned Filed: Herewith

Title: Systems and Methods for Automated Classification and Analysis of Large Volumes of Test Result Data

Inventors: Edward Triou, Jr., Andre Milbradt, Osarumwemse U. Agbonile, and Affan Arshad Dar

Attorney: Nathaniel Ari Long Phone:

Phone: (215) 568-3100 Sheet 11 of 11

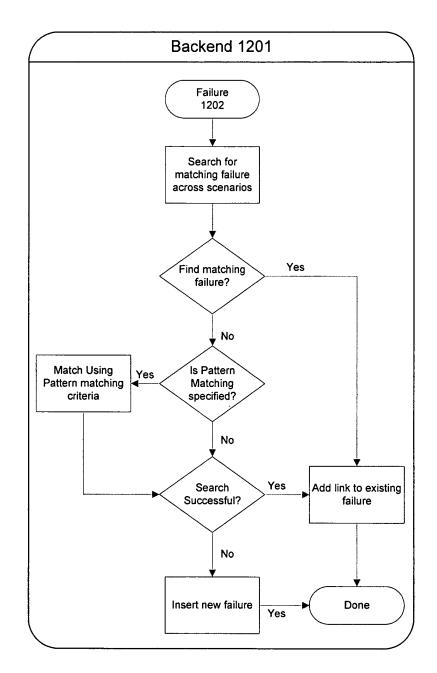


Fig. 12